



## DC Brushless Motor Driver IC

# PT-308Fx Double Coil Motor Driver IC

### Overview

This universal DC brushless motor driver IC is designed for various DC motor's applications. This driver IC can be used for double coil DC brushless motor. This driver IC accept the hall IC's output signal and drives the motor coil directly without any other extra transistors.

### Applications

- Double coils DC brushless motor.
- 4V to 18V operation

### Features

- Motor lock protection and automatic restart
- Low power consumption and high driving efficiency
- PWM speed control
- RD output
- FG output

PT-308F-A: Analogy PWM motor driver

PT-308F-B: Linear PWM motor predriver

PT-308F-C: Analogy PWM motor driver, no pull-up diode

PT-308F-D: Digital PWM motor driver

### Input Devices

- Hall IC

### Specifications

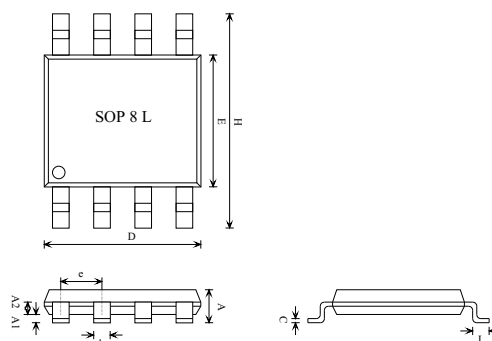
#### Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Conditions	Ratings	Units
Maximum supply voltage	$V_{DD}^{max}$		18	V
Allowable power dissipation	$P_d$		350*	mW
Operating temperature	Ta		-30 ~ +125	°C
Storage temperature	Ts		-55 ~ +150	°C
Output Continuous current	$I_{out}$	Max.	400	mA
Output Peak current	$I_{out}$	T ≤ 20us	650	mA

\* On 50mm x 50mm x 1.6mm glass epoxy board

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### Package: SOT-26



SYMBOLS	DIMENSIONS IN MILLIMETERS(mm)		
	MIN	NOM	MAX
A	1.47	1.60	1.73
A1	0.10	-	0.30
A2	-	1.45	-
b	0.33	0.41	0.51
C	0.19	0.20	0.25
D	4.80	4.85	4.95
E	3.81	3.91	3.99
H	5.79	5.99	6.20
e	-	1.27	-
L	0.38	0.71	1.27